

800xA Control Room Pre-studies “Complete”

By conducting an ABB control room pre-study, you get the unique possibility to create a control room environment that perfectly suits your needs and individual situation. The pre-study focuses on human factors interacting with 800xA.



ABB Control Room Pre-studies can today be made in three different levels of involvement: **Review, Design and Complete.** The packages differ in terms of design depth for a perfect fit of the control room needs and requirements. This document describes the “Complete” design depth.

Individual control room design

Today's control rooms are characterized by fast decision-making and many simultaneous processes that often require attention at the same time. Plant managers face the challenge to provide their operators with an environment that both suits effective operations as well as operator performance and well-being.



Why do a control room pre-study?

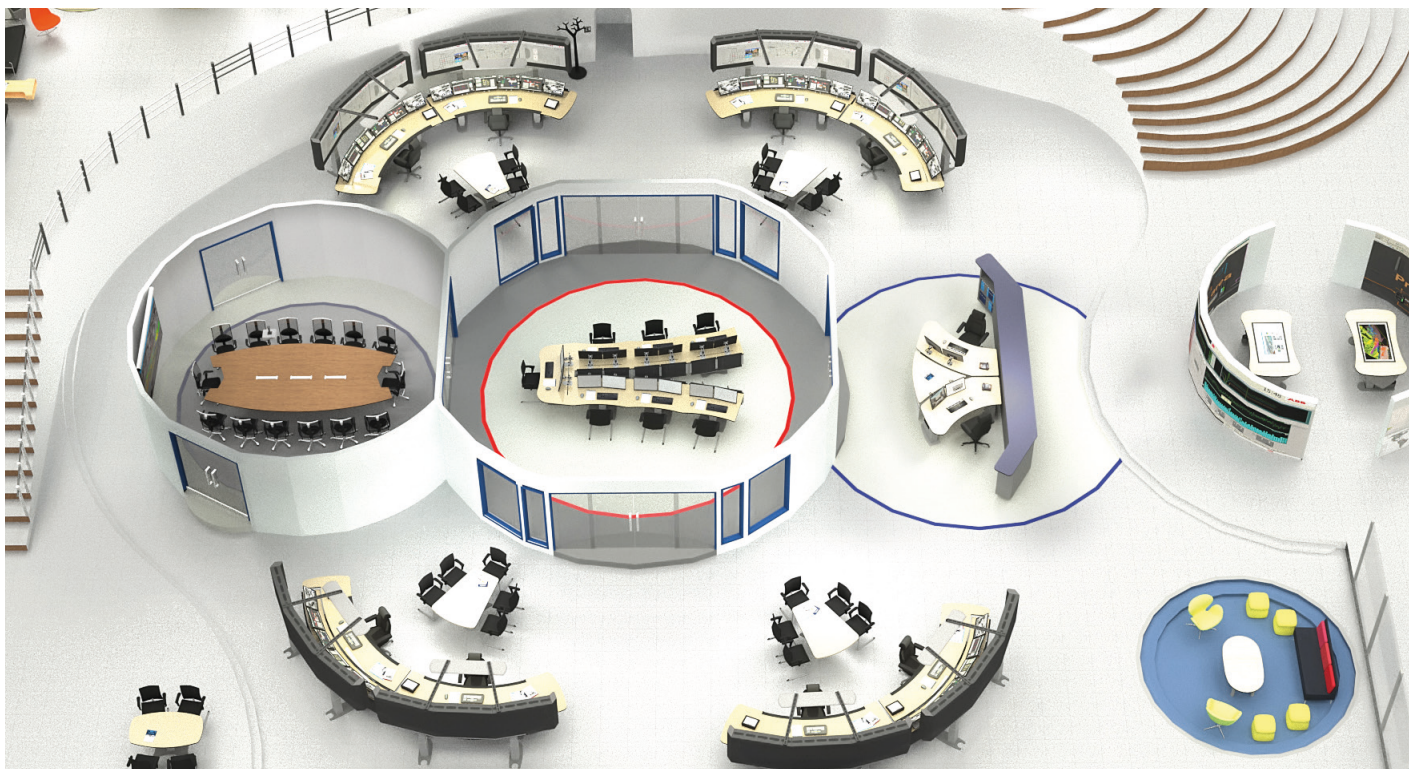
The pre-study provides the fundamentals for an ideal control environment, which is space-saving, flexible and future proof. This unparalleled approach with a Collaborative Design Process and 3D Design Tools offers you a high performance operator environment with ergonomic thinking that is truly one of a kind.

The aim of the study is to create a unique control room environment for the specific needs of the customer, with human factors, productivity and operator effectiveness in focus. The method includes asking relevant questions that tackle the right areas of interest:

- What does your existing control room look like?
- What strategy do you follow today?
- How do you wish to attract new operators?
- How do you collaborate and interact with different roles?

Your Extended Operator Workplace (EOW) can be tightly integrated in your control room pre-study. Integrated operations lead to the possibility of expanding production in your existing control room. Please turn the page for an overview of what is included in this pre-study.

The pre-study tells your own story.



Different pre-study design depths

The pre-studies can be made in three different levels of involvement: Review, Design and Complete. Depending on the chosen phase, you get additional stages of design depth. Complete includes all the available stages.

What is included in the “Complete” pre-study?

As can be seen on the above image, the unfolded Complete “box”, there are different aspect areas in the pre-study. Complete is the most comprehensive pre-study, including:

1. Analyzing the existing control room and why it is designed the way it is.
2. Obtaining outline documents and a questionnaire of the existing control room for a good understanding of the customer's situation.
3. Customer visits in order to obtain a good understanding of the customer's situation.
4. Conceptual design phase where different proposals and questionnaire document are made.
5. An extensive Human Factors Study highlighting the human role in the control process.
6. Brand research for incorporating the control room design into the client brand.
7. Presentation of the different proposals (conceptual designs) with agreement on which proposal will be arranged into a final 3D SketchUp layout model.
8. The final delivery of the control room layout with adjacent areas includes the report together with the 3D model, which can be exported to CAD and many other formats.

For more information contact us:

www.abb.com/800xA